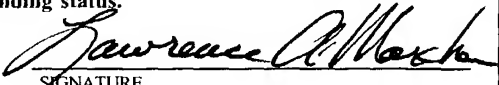


101389580.075102  
J02 Rec'd PCT/PTO 28 MAR 2002

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| FORM PTO-1390<br>(REV. 12-2001)   |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   |  | ATTORNEY'S DOCKET NUMBER                              |  |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371  |  |   |  | 740-65  |  |
|   |  |   |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)       |  |
|   |  |   |  | 10/089580   |  |
| INTERNATIONAL APPLICATION NO.<br>PCT/DE00/03420   |  | INTERNATIONAL FILING DATE<br>28 September 2000 (28.09.00) |  | PRIORITY DATE CLAIMED<br>28 September 1999 (28.09.99) |  |
| TITLE OF INVENTION<br>METHOD FOR BILLING INTERNET TRANSACTIONS VIA MOBILE RADIO TELEPHONE SERVICE   |  |   |  |   |  |
| APPLICANT(S) FOR DO/EO/US<br>Michael Langer et al.  |  |   |  |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |  |   |  |   |  |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input checked="" type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</p> <p>14. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</p> <p>15. <input checked="" type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information:</p> |  |   |  |   |  |

|  |              |   |           |   |    |
|--|--------------|---|-----------|---|----|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5)<br><b>10/089580</b>   |              | INTERNATIONAL APPLICATION NO<br><b>PCT/DE00/03420</b> |           | ATTORNEY'S DOCKET NUMBER<br><b>740-65</b>   |    |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):</b><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO ..... <b>\$1040.00</b><br><br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$890.00</b><br><br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO<br>but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$740.00</b><br><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$710.00</b><br><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b> |              |   |           | <b>CALCULATIONS PTO USE ONLY</b>  |    |
|  |              |   |           | \$ 890  |    |
|  |              |   |           | \$  |    |
|  |              |   |           | \$  |    |
|  |              |   |           | \$  |    |
| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(e)).  |              |   |           | \$  |    |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE      | \$  |    |
| Total claims   | 15 - 20 =    | 0   | x \$18.00 | \$ 0  |    |
| Independent claims   | 1 - 3 =      | 0   | x \$84.00 | \$ 0  |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |   |           | \$ 0  |    |
|  |              |   |           | + \$280.00  |    |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |           | <b>\$ 890</b>   |    |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above<br>are reduced by 1/2.  |              |   |           | \$  |    |
| <b>SUBTOTAL =</b>  |              |   |           | <b>\$ 890</b>   |    |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |   |           | \$  |    |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |           | <b>\$</b>   |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be<br>accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +   |              |   |           | \$  |    |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |           | <b>\$ 890</b>   |    |
|  |              |   |           | Amount to be<br>refunded:   | \$ |
|  |              |   |           | charged:  | \$ |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>890</u> to cover the above fees is enclosed.<br><br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br><br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any<br>overpayment to Deposit Account No. <u>02-0460</u> . A duplicate copy of this sheet is enclosed.<br><br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card</b><br><b>information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.  |              |   |           |   |    |
| <b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR<br>1.137 (a) or (b)) must be filed and granted to restore the application to pending status.   |              |   |           |   |    |
| SEND ALL CORRESPONDENCE TO:<br><br>THE MAXHAM FIRM<br>SYMPHONY TOWERS<br>750 B STREET, SUITE 3100<br>SAN DIEGO, CA 92101   |              |   |           |   |    |
|  |              |   |           | <br>SIGNATURE |    |
|  |              |   |           | <u>Lawrence A. Maxham</u><br>NAME   |    |
|  |              |   |           | <u>24,483</u><br>REGISTRATION NUMBER  |    |

10/089580

JC13 Rec'd PCT/PTO 28 MAR 2002

**IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

**CONCERNING A FILING UNDER 35 U.S.C. 371**

In re  
Applicant : MICHAEL LANGER et al.  
U.S. Application No. : (Unknown)  
International Application No. : PCT/DE00/03420  
International Filing Date : 28 September 2000  
For : METHOD FOR BILLING INTERNET  
TRANSACTIONS VIA MOBILE  
RADIO TELEPHONE SERVICE  
  
Priority Data : DE 199 46 539.8  
Filed : 28 September 1999 (28.09.99)  
  
Our Attorney/Docket Reference : 740-65 LAM

**PRELIMINARY AMENDMENT**

The specification has been translated, revised for idiomatic English, and amended by adding headings and an abstract. Accordingly, a substitute specification is submitted herewith to incorporate those changes.

Prior to calculation of the filing fee, and prior to examination of the above application, please enter the following amendment to the claims:

**In the Claims:**

Cancel claims 1-9.

Insert the following new claims:

- 10. A method of payment for goods or services on the Internet by means of a
- 2 mobile wireless Internet terminal, the method comprising;
- initiating a payment transaction;
- 4 providing a customer with access to a payment gateway via said mobile wireless
- Internet terminal, wherein said payment gateway is located by an IP address;
- 6 allowing a provider access to said payment gateway via a server, wherein information
- about the customer is stored in said payment gateway;
- 8 establishing a minipayment account in said payment transaction;
- transmitting from said server, as a provider message, transaction data including
- 10 provider identification information, payment options supported by the provider, and the IP
- address of the payment gateway, to the customer's mobile wireless Internet terminal and also
- 12 to said payment gateway;
- adding the customer's temporary IP address as customer identification;
- 14 allowing the customer to review said transaction data and select a payment option;
- sending the transaction data, as a customer message to the payment gateway, said
- 16 transaction data having been received by the customer from the provider;
- synchronizing said provider and customer messages;
- 18 comparing said provider and customer messages to determine whether they match;
- determining and checking the customer's MSISDN and customer information on the

20 basis of the customer's IP address; and  
performing a deduction from the minipayment account online if said provider and  
22 customer messages match.

11. The method according to claim 10, wherein no electronic financial information  
2 and no customer information is stored in said terminal after the transaction.

12. The method according to claim 10, further comprising the step of securing  
2 each payment transaction with a personal identification number (PIN).

13. The method according to claim 11, further comprising the step of securing  
2 each payment transaction with a personal identification number (PIN).

14. The method according to claim 10, wherein sensitive data remains securely in the  
2 mobile wireless network and is not transmitted over the Internet.

15. The method according to claim 13, wherein sensitive data remains securely in the  
2 mobile wireless network and is not transmitted over the Internet.

16. The method according to claim 10, wherein no additional encryption methods are  
2 necessary.

17. The method according to claim 15, wherein no additional encryption methods are  
2 necessary.

18. The method according to claim 10, wherein no additional authentication method  
2 is necessary because the authentication of the customer is performed by the mobile wireless  
network.

19. The method according to claim 17, wherein no additional authentication method  
2 is necessary because the authentication of the customer is performed by the mobile wireless  
network.

20. The method according to claim 10, wherein the provider's server recognizes  
2 which GSM operator the customer belongs to on the basis of the IP address range.

21. The method according to claim 19, wherein the provider's server recognizes  
2 which GSM operator the customer belongs to on the basis of the IP address range.

22. The method according to claim 10, wherein the payment gateway generates an  
2 electronic invoice for the provider's account for each transaction performed.

23. The method according to claim 21, wherein the payment gateway generates an  
2 electronic invoice for the provider's account for each transaction performed.

24. A method of accounting for transactions on the Internet via a mobile
- 2 wireless communication system, comprising a combination of provider software with
- (Internet) payment systems and Wireless Application Protocol (WAP) terminals.--

6



**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

Claims 1-9 have been canceled.

New claims 10-24 have been added.

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## Method of Accounting for Internet Transactions Via Mobile Wireless

This invention relates to a method of accounting for Internet transactions via mobile wireless. Methods of accounting for Internet transactions via an Internet terminal (e.g., a personal computer) are known from the related art. Methods known previously for use on the Internet involve keeping or loading customer data in the Internet terminal or at the dealer's server. However, this is not feasible when using mobile wireless terminals as Internet terminals.

This invention is based on the following object (problem): Providing a method with which it is possible to rapidly and reliably bill for Internet transactions via mobile wireless.

This object is achieved for the features characterized in the independent patent claims.

By means of WAP (wireless application protocol) it is possible to select goods (information, tickets, CDs, hotel rooms, etc.) over the Internet by using a mobile wireless terminal and optionally reserve them. If the customer actually wants to purchase the goods, he can make a payment transaction from the mobile wireless device.

### Advantages in comparison with the related art

Methods known previously on the Internet have involved keeping or loading customer data in the terminal or at the dealer's server. The WAP terminal does not have enough capability for the first method, and for the second method, customer data must be entered again for each dealer. This is not feasible with a WAP terminal keyboard.

Sensitive data remains in a secured GSM network with the method according to this invention and is not transmitted over the Internet, and therefore no additional encryption methods are necessary. In the GSM network, the customer is known from his MSISDN. Therefore, no additional authentication method is necessary. It is possible to preserve the anonymity of the customer with respect to the dealer.

Figure 1 shows an example of a system architecture according to this invention.

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Figure 2 shows an example of a payment transaction sequence.

Four parties are involved in performing the payment transaction: customer, dealer, payment gateway and bank network.

The customer (WAP user) has a WAP-capable mobile wireless terminal 1 and has an access to the Internet 9 via the mobile wireless network 11.

The dealer has his standard Internet shop software in a provider server 2, expanded by a WML interface (wireless markup language interface) which allows the shop web pages to be displayed on the WAP-capable mobile wireless terminal 1. Payment gateway 3 holds customer data such as credit card information, debit information, minipayments and address information with respect to the customer's MSISDN in a payment database 4. The payment gateway 3 can determine by query to MSISDN-IP database 5 the MSISDN belonging to a temporary IP address. It also has access to various reference databases 6 for checking the customer data. The payment gateway 3 can forward credit card information and debit transactions to a bank network 7. Minipayments transactions are handled via a minipayments account with a mobile wireless operator-specific minipayments bank 8.

The minipayments account is carried as a subaccount of an actual bank account at a bank. Payment gateway 3 and minipayments account 8 are constantly being synchronized through database balancing. The minipayments account 8 may be paid in advance (prepaid) or it may be regulated by debiting (postpaid). The customer can access the current account status via the Internet 9 at any time and can access ongoing postings to the minipayments account 8. Deductions from minipayments account 8 to dealers' accounts with various banks 10 take place collectively over a period of time (e.g., by day, by week or by month).

Description of process on the basis of Figures 1 and 2:

The WAP user selects the WML shop page of a dealer's server 2 via his mobile telephone 1. The dealer's WML shop page appears on the display of the mobile telephone 1. The customer selects

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from available goods, which he would like to purchase, and places them in a virtual shopping cart at the dealer's server. Ultimately, the customer can see all the goods he has collected in his shopping cart. This selection procedure may lead, for example, to a certain music CD, a hotel room, theater tickets to a certain movie, etc. The dealer sees only an IP address issued temporarily to the mobile wireless subscriber, i.e., the customer is anonymous to the dealer. However, the dealer may determine the GSM network operator from the IP address range.

On the shopping cart WML page, the WAP user may review his entries so far and click on "pay." Then the dealer's server 2 transmits the transaction data (product information, purchase price, total purchase sum, a transaction ID (TA ID), his dealer ID, the payment options he supports and an IP link to the payment gateway) to mobile telephone 2 of the WAP user. At the same time, he also transmits this information directly to payment gateway 3. In doing so, he adds as customer identification the temporary IP address of the customer. The product information may be omitted here.

The WAP user reviews the information in the shopping cart and starts the payment procedure by selecting one of the available payment options. He may also terminate the payment process at this point. If he selects a payment option, the transaction data sent from the dealer (optionally without product information) is sent to payment gateway 3. In the case of larger amounts, input of a payment PIN, which is stored in payment gateway 3, may be required.

Payment gateway 3 synchronizes the two messages and checks them for whether they match. The user IP address, TA ID, amount and dealer ID must be identical. Via the user IP address, the payment gateway 3 determines the MSISDN of the WAP user and searches its customer data with it. It determines whether the data has been stored correctly for the selected payment option. Reference databases 6 are queried. If the result of this check is positive, the dealer and the WAP user each receive a payment confirmation. Payment gateway 3 makes a deduction from the minipayment account 8 online. Credit cards and debit entries are relayed later to the bank network 7 or a system with a connection to the bank network for execution. The payment gateway 3 writes an electronic invoice for the dealer for each transaction conducted. These are

In cases where security requirements are lower, it is possible to simplify the method by making the authorization query to the payment gateway 3 asymmetrical, i.e., only the customer sends a message to the payment gateway or only the dealer sends a message to the payment gateway to initiate the payment transactions. No synchronization is necessary in these cases.

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# Patent Claims

1. A method of accounting for Internet services over mobile wireless, characterized in that a payment gateway (3) is set up so that a mobile wireless Internet user can access it via a mobile wireless terminal (1) and a service provider can access it via a dealer's server (2), whereby customer information about the user is stored centrally in the payment gateway (3), a minipayment account (8) is set up, in a payment transaction, the dealer's server (2) transmits the transaction data, his dealer ID, the payment options supported by the dealer and an IP link of the payment gateway (3) to the user's mobile telephone (1) and at the same time transmits this information directly to the payment gateway (3), adding the user's temporary IP address as customer identification, after reviewing the data and selecting his payment option, the user sends the transaction data sent by the dealer to the payment gateway (3), and the payment gateway (3) synchronizes the messages received from the dealer (2) and the user (1) and checks them for whether they match, determining and checking the user's MSISDN and customer information on the basis of the user's IP address, and if the outcome of this check is positive, performing a deduction from the minipayment account (8) online.
2. The method according to Claim 1, characterized in that no electronic financial information and no customer information is kept in the terminal.
3. The method according to Claim 1 or 2, characterized in that the customer can secure each payment transaction with a payment PIN.
4. The method according to one of Claims 1 through 3, characterized in that sensitive data remains securely in the mobile wireless network and is not transmitted over the Internet.
5. The method according to one of Claims 1 through 4, characterized in that no additional encryption methods are necessary.
6. The method according to one of Claims 1 through 5, characterized in that no additional

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authentication method is necessary because the authentication of the customer is performed by the mobile wireless network.

7. The method according to one of Claims 1 through 6, characterized in that the dealer's server recognizes which GSM operator the customer belongs to on the basis of the IP address range.

8. The method according to one of Claims 1 through 7, characterized in that the payment gateway generates an electronic invoice for the dealer's account for each transaction performed

9. The method of accounting for Internet transactions via mobile wireless, characterized by a combination of standard dealer software with standard (Internet) payment systems and standard WAP terminals.

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES  
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum  
Internationales Büro



(43) Internationales Veröffentlichungsdatum  
12. April 2001 (12.04.2001)

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(21) Internationales Aktenzeichen: PCT/DE00/03420

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28. September 2000 (28.09.2000)

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ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,  
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sisches Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI,  
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI-Patent  
(BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,  
SN, TD, TG).

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Veröffentlicht:

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ter [DE/DE]; Rosenhain 3, 53123 Bonn (DE). REINDL,

— Ohne internationalen Recherchenbericht und erneut zu  
veröffentlichen nach Erhalt des Berichts.

Zur Erklärung der Zweibuchstaben-Codes, und der anderen  
Abkürzungen wird auf die Erklärungen ("Guidance Notes on  
Codes and Abbreviations") am Anfang jeder regulären Ausgabe  
der PCT-Gazette verwiesen.

(54) Title: METHOD FOR BILLING INTERNET TRANSACTIONS VIA MOBILE RADIO TELEPHONE SERVICE

(54) Bezeichnung: VERFAHREN ZUR ABRECHNUNG VON INTERNET-GESCHÄFTEN ÜBER MOBILE FUNK

(57) Abstract: The invention relates to a method for billing internet transactions via mobile radio telephone service. By using WAP (Wireless Application Protocol), it is possible to select and, optionally, reserve goods and services (information, tickets, CD's, hotel rooms, etc.) sold via the internet. When the customer decides to purchase the good or service, he or she conducts a payment transaction from the mobile radio telephone device. According to the invention, the customer data required for conducting a payment transaction is centrally maintained in a database of a payment gateway.

(57) Zusammenfassung: Die Erfindung betrifft ein Verfahren zur Abrechnung von Internet-Geschäften über Mobilfunk. Mittels WAP (Wireless Application Protocol) ist es möglich, im Internet Waren (Information, Tickets, CDs, Hotelzimmer, etc.) auszuwählen und ggf. zu reservieren. Wenn der Kunde die Ware tatsächlich kaufen will, kann er vom Mobilfunkgerät aus eine Bezahltransaktion durchführen. Die für eine Bezahltransaktion erforderlichen Kundendaten werden erfindungsgemäß zentral in einer Datenbank eines Payment-Gateway gehalten.

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1/1

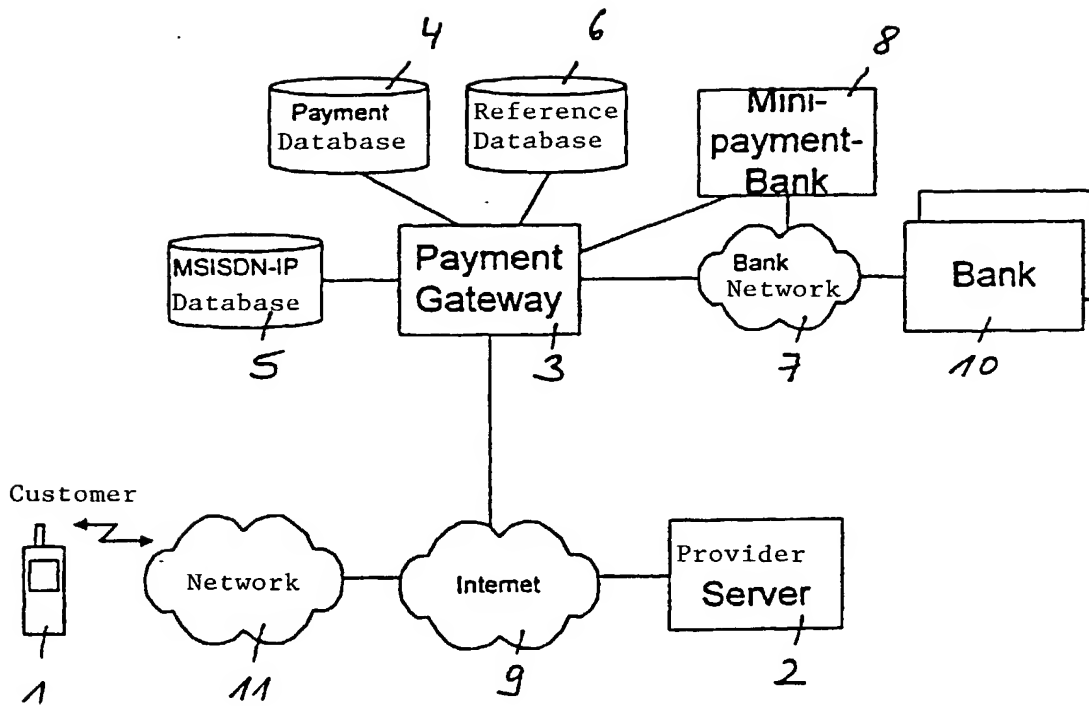


FIG. 1

1/2

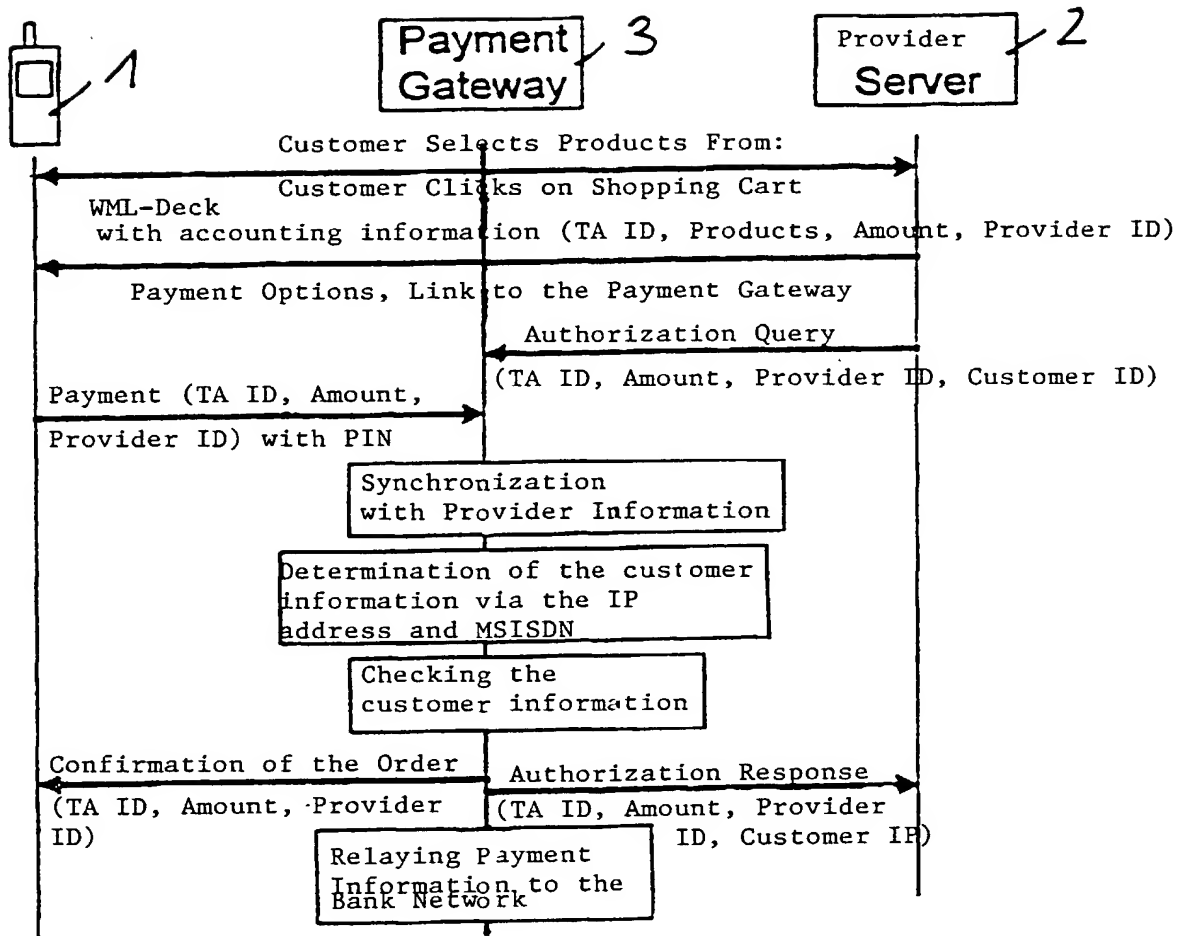


FIG. 2

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|  |   |           |  |
|--|---|-----------|--|
| <b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b><br>(37 CFR 1.63) | <input checked="" type="checkbox"/> Declaration Submitted With Initial Filing | <b>OR</b> | <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required) |
|  | <b>Attorney Docket Number</b> 0740-65 LAM                                     |           |  |
|  | <b>First Named Inventor</b> Michael Langer                                    |           |  |
|  | <b>COMPLETE IF KNOWN</b>  |           |  |
|  | <b>Application Number</b>   |           | /  |
|  | <b>Filing Date</b>  |           | 28 March 2002  |
| <b>Group Art Unit</b> unknown  |   |           |  |
| <b>Examiner Name</b> unknown   |   |           |  |

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled.

METHOD FOR BILLING INTERNET TRANSACTIONS VIA MOBILE RADIO TELEPHONE SERVICE

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number PCT/DE00/03420 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) Country | Priority Not Claimed     | Certified Copy Attached? |                                     |
|-------------------------------------|---------|--|--------------------------|--------------------------|-------------------------------------|
|                                     |         |  |                          | YES                      | NO                                  |
| 199 46 539 8                        | DE      | 09/28/1999                               | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| PCT/DE00/03420                      | PCT     | 09/28/2000                               | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                     |         |  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|                                     |         |  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

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| <b>Address</b>  |  |  |   |  |   |
| <b>City</b>   |  | <b>State</b>   |   | <b>ZIP</b>                                   |   |
| <b>Country</b>  |  | <b>Telephone</b>   |   | <b>Fax</b>                                   |   |
| I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. |  |  |   |  |   |
| <b>NAME OF SOLE OR FIRST INVENTOR:</b>  |  |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |  |   |
| <b>Given Name<br/>(first and middle (if any))</b>   |  | Michael  |   | <b>Family Name<br/>or Surname</b> Langer     |   |
| <b>Inventor's<br/>Signature</b>   |  |  |   | <b>Date</b>                                  |   |
| London  |  | <b>State</b>   |   | <b>UK</b>                                    | <b>German</b>   |
| <b>Residence: City</b>  |  | <b>State</b>   |   | <b>Country</b>                               | <b>Citizenship</b>                                    |
| 4 Epirus Road   |  |  |   |  |   |
| <b>Mailing Address</b>  |  |  |   |  |   |
| London  |  | <b>State</b>   |   | SW6 7UH                                      | <b>UK</b>   |
| <b>City</b>   |  | <b>State</b>   |   | <b>Zip</b>                                   | <b>Country</b>  |
| <b>NAME OF SECOND INVENTOR:</b>   |  |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |  |   |
| <b>Given Name<br/>(first and middle (if any))</b>   |  | Patrik   |   | <b>Family Name<br/>or Surname</b> Ljungstrom |   |
| <b>Inventor's<br/>Signature</b>   |  |  |   | <b>Date</b>                                  |   |
| Konigswinter  |  | <b>State</b>   |   | <b>Germany</b>                               | <b>Sweden</b>   |
| <b>Residence: City</b>  |  | <b>State</b>   |   | <b>Country</b>                               | <b>Citizenship</b>                                    |
| Am Fronhof 11   |  |  |   |  |   |
| <b>Mailing Address</b>  |  |  |   |  |   |
| Konigswinter  |  | <b>State</b>   |   | D-53639                                      | <b>Germany</b>  |
| <b>City</b>   |  | <b>State</b>   |   | <b>Zip</b>                                   | <b>Country</b>  |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto   |  |  |   |  |   |

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**Supplemental Sheet**  
Page 1 of 2

|  |            |   |                 |
|--|------------|---|-----------------|
| Name of Additional Joint Inventor, if any: |            | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                 |
| Given Name (first and middle [if any])     |            | Family Name or Surname  |                 |
| Michel                                     |            | Uwe   |                 |
| Inventor's Signature                       |            | Date  |                 |
| Residence: City                            | Bad Honnef | State   | Country Germany |
| Citizenship                                |            | German  |                 |
| Mailing Address Lohmarstrasse 10           |            |   |                 |
| Mailing Address                            |            |   |                 |
| City                                       | Bad Honnef | State   | ZIP D-53604     |
| Country                                    |            | Germany   |                 |
| Name of Additional Joint Inventor, if any: |            | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                 |
| Given Name (first and middle [if any])     |            | Family Name or Surname  |                 |
| Johann                                     |            | Reindl  |                 |
| Inventor's Signature                       |            | Date  |                 |
| Residence: City                            | Bonn       | State   | Country Germany |
| Citizenship                                |            | German  |                 |
| Mailing Address An den Markthallen 1       |            |   |                 |
| Mailing Address                            |            |   |                 |
| City                                       | Bonn       | State   | Zip D-53119     |
| Country                                    |            | Germany   |                 |
| Name of Additional Joint Inventor, if any: |            | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                 |
| Given Name (first and middle [if any])     |            | Family Name or Surname  |                 |
| Leonhard                                   |            | Schmickler  |                 |
| Inventor's Signature                       |            | Date  |                 |
| Residence: City                            | Bonn       | State   | Country Germany |
| Citizenship                                |            | German  |                 |
| Mailing Address An der Vogelweide 25       |            |   |                 |
| Mailing Address                            |            |   |                 |
| City                                       | Bonn       | State   | Zip D-53229     |
| Country                                    |            | Germany   |                 |

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**DECLARATION****ADDITIONAL INVENTOR(S)**  
**Supplemental Sheet**  
Page 2 of 2

|  |      |   |                 |
|--|------|---|-----------------|
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                 |
| Given Name (first and middle [if any])     |      | Family Name or Surname  |                 |
| Ulrike                                     |      | Feuser  |                 |
| Inventor's Signature                       |      | Date  |                 |
| Residence: City                            | Bonn | State   | Country Germany |
| Citizenship                                |      | German  |                 |
| Mailing Address Rheinallee 25              |      |   |                 |
| Mailing Address                            |      |   |                 |
| City                                       | Bonn | State   | ZIP D-53173     |
| Country                                    |      | Germany   |                 |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                 |
| Given Name (first and middle [if any])     |      | Family Name or Surname  |                 |
| Walter                                     |      | Mohrs   |                 |
| Inventor's Signature                       |      | Date  |                 |
| Residence: City                            | Bonn | State   | Country Germany |
| Citizenship                                |      | German  |                 |
| Mailing Address Rosenhain 3                |      |   |                 |
| Mailing Address                            |      |   |                 |
| City                                       | Bonn | State   | Zip D-53123     |
| Country                                    |      | Germany   |                 |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                 |
| Given Name (first and middle [if any])     |      | Family Name or Surname  |                 |
|  |      |   |                 |
| Inventor's Signature                       |      | Date  |                 |
| Residence: City                            |      | State   | Country         |
| Citizenship                                |      |   |                 |
| Mailing Address                            |      |   |                 |
| Mailing Address                            |      |   |                 |
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|--|-------------------------------|----------------|
| <b>POWER OF ATTORNEY OR<br/>AUTHORIZATION OF AGENT</b> | <b>Application Number</b>     | unknown        |
|  | <b>Filing Date</b>            | 28 March 2002  |
|  | <b>First Named Inventor</b>   | Michael Langer |
|  | <b>Group Art Unit</b>         | unknown        |
|  | <b>Examiner Name</b>          | unknown        |
|  | <b>Attorney Docket Number</b> | 0740-65 LAM    |

I hereby appoint:

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☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

*Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).*

**SIGNATURE of Applicant or Assignee of Record**

|           |  |
|-----------|--|
| Name      |  |
| Signature |  |
| Date      |  |

**NOTE:** Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☒ Declaration Submitted With Initial Filing      OR      ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

|                          |                |
|--------------------------|----------------|
| Attorney Docket Number   | 0740-65 LAM    |
| First Named Inventor     | Michael Langer |
| <b>COMPLETE IF KNOWN</b> |                |
| Application Number       | 10 / 089,580   |
| Filing Date              | 28 March 2002  |
| Group Art Unit           | unknown        |
| Examiner Name            | unknown        |

**As a below named inventor, I hereby declare that:**

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

**METHOD FOR BILLING INTERNET TRANSACTIONS VIA MOBILE RADIO  
TELEPHONE SERVICE**

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number PCT/DE00/03420 and was amended on (MM/DD/YYYY) (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) Country | Priority Not Claimed     | Certified Copy Attached? |                                     |
|-------------------------------------|---------|--|--------------------------|--------------------------|-------------------------------------|
|                                     |         |  |                          | YES                      | NO                                  |
| 199 46 539 8                        | DE      | 09/28/1999                               | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| PCT/DE00/03420                      | PCT     | 09/28/2000                               | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                     |         |  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|                                     |         |  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

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**DECLARATION — Utility or Design Patent Application**

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| I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. |  |   |       |                                  |   |
| NAME OF SOLE OR FIRST INVENTOR:   |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                                  |   |
| Given Name <u>1-00</u> Michael<br>(first and middle (if any))   |  | Family Name <u>Langer</u><br>or Surname                                       |       |                                  |   |
| Inventor's Signature <u>Michael Langer</u>  |  | Date <u>12/06/02</u>  |       |                                  |   |
| London<br>Residence: City   |  | UK<br>Country   |       | German<br>Citizenship <u>DEX</u> |   |
| 4 Epirus Road<br>Mailing Address  |  |   |       |                                  |   |
| London<br>City  |  | SW6 7UH<br>Zip  |       | UK<br>Country                    |   |
| NAME OF SECOND INVENTOR:  |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                                  |   |
| Given Name <u>2-00</u> Patrik<br>(first and middle (if any))  |  | Family Name <u>Ljungstrom</u><br>or Surname                                   |       |                                  |   |
| Inventor's Signature <u>Patrik Ljungstrom</u>   |  | Date <u>16.5.2002</u>   |       |                                  |   |
| Konigswinter<br>Residence: City   |  | Germany<br>Country  |       | Sweden<br>Citizenship <u>SEX</u> |   |
| Am Fronhof 11<br>Mailing Address  |  |   |       |                                  |   |
| Konigswinter<br>City  |  | D-53639<br>Zip  |       | Germany<br>Country               |   |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto   |  |   |       |                                  |   |

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**ADDITIONAL INVENTOR(S)**  
**Supplemental Sheet**  
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**DECLARATION****ADDITIONAL INVENTOR(S)**

Supplemental Sheet

Page 2 of 4

|  |       |   |                               |
|--|-------|---|-------------------------------|
| Name of Additional Joint Inventor, if any: |       | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                               |
| Given Name (first and middle [if any])     |       | Family Name or Surname  |                               |
| Ulrike                                     |       | Feuser  |                               |
| Inventor's Signature <i>Ulrike Feuser</i>  |       | Date 16.05.02   |                               |
| Residence: City Bonn                       | State | Country Germany   | Citizenship German <i>DEX</i> |
| Mailing Address Rheinallee 25              |       |   |                               |
| Mailing Address                            |       |   |                               |
| City Bonn                                  | State | ZIP D-53173   | Country Germany               |
| Name of Additional Joint Inventor, if any: |       | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                               |
| Given Name (first and middle [if any])     |       | Family Name or Surname  |                               |
| Walter                                     |       | Mohrs   |                               |
| Inventor's Signature <i>Walter Mohrs</i>   |       | Date 22/05/02   |                               |
| Residence: City Bonn                       | State | Country Germany   | Citizenship German <i>DEX</i> |
| Mailing Address Rosenhain 3                |       |   |                               |
| Mailing Address                            |       |   |                               |
| City Bonn                                  | State | Zip D-53123   | Country Germany               |
| Name of Additional Joint Inventor, if any: |       | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                               |
| Given Name (first and middle [if any])     |       | Family Name or Surname  |                               |
|  |       |   |                               |
| Inventor's Signature                       |       | Date  |                               |
| Residence: City                            | State | Country   | Citizenship                   |
| Mailing Address                            |       |   |                               |
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